LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102 573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

MARTIN MARIETTA MATERIALS, INC.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements in the application, a permit is hereby granted to engage in surface mining of

limestone in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 334 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres	Acres	Total	Site/Stream	Site
			-	Renewed	New	Acres	Name	Number
Cape Girardeau	04	33N	12E	40	0	40	Appleton	0101
Carter	04	27N	01E	45	0	45	Van Buren	0102
Perry	19	36N	11E	161	0	161	Perryville	0099
Jefferson	32	42N	06E	88	0	88	Barnhart	0100

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this

4th

day of

March 2004

DIRECTOR OF STAFF

Land Reclamation Commission

 Permit No.
 0067

 Effective Date
 03/04/2004

 Expiration Date
 02/28/2005

MO 780-1122 (6-95)

RECEIVED FEB 1 7 2004

MISSOURI DEPARTMENT OF NATURAL RESOURCES

LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES MISSOURI LAND P.O. BOX 176

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES AECLAMATION COMMISSIONFERSON CITY, MO 65102-0176

				THE COMPLETE OF THE COMPLETE O	
NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIN Martin Marietta Materials,				1/12/200	4
ADDRESS	THC.	CITY		STATE	ZIP CODE
800 North Causeway Blvd., S	uite 2A	Mandeville		LA	70448
CONTACT PERSON				TELEPHONE NUMB 985-67	ı
W. Thomas Sellers, Jr. FEES: COMPLETE SECTION OR SECTION	N II			963-07	4-2360
SECTION I. Fees: Open pit operators and		nan 5,000 tons of sand	and/or grave	el:	
1. To compute the site fee complete the ir	nformation below:				
SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month to the permit year	hat the site will be oper	ated during	permit year pay \$	d six months or more per
^{1.} Appleton Quarry	Jan, Feb, Mar, Apr, N	May, Jun, Jul. Aug, Sep, C	Oct, Nov, Dec	\$ 300.00	
^{2.} Barnhart Quarry	Jan, Feb, Mar, Apr, N	lay, Jun, Jul, Aug, Sep, C	Oct, Nov, Dec	\$ 300.00	
3. Perryville Quarry	Jan, Feb, Mar, Apr, N	May, Jun, Jul. Aug, Sep, C	Oct, Nov, Dec	\$ 300.00	
^{4.} Van BUren Quarry	Jan, Feb, Mar, Apr, N	May, Jun, Jul, Aug, Sep, C	Oct, Nov, Dec	\$ 300.00	
5.	Jan, Feb, Mar, Apr, N	May, Jun, Jul, Aug, Sep, C	Oct, Nov, Dec		
6.	Jan, Feb, Mar, Apr, N	fay, Jun, Jul, Aug, Sep, C	Oct, Nov, Dec	\$	
7.	Jan, Feb, Mar, Apr, N	May. Jun, Jul. Aug, Sep, C	Oct, Nov, Dec	\$	
8.	Jan, Feb, Mar, Apr, N	May, Jun, Jul, Aug, Sep, C	Oct, Nov, Dec	\$	
9.	Jan, Feb, Mar, Apr, N	May, Jun, Jul, Aug, Sep, C	Oct, Nov, Dec	\$	
10.	Jan, Feb, Mar, Apr, M	/lay, Jun, Jul, Aug, Sep, C	Oct, Nov, Dec	\$	
TOTAL SITE FEE			->	\$ 1,200.0	00
2. Acreage Fee \$5 Xnumber	of acres bonded			\$ 1,670.0	00
3. Annual Permit Fee				\$ 500	
4. Total Fee (Add totals from 1, 2 and 3)				\$ 3,370.0	00
NOTE: If Total Fee exceeds \$2,500.00 th	en pay only			\$ 2,500	
SECTION II. FEES: Sand or gravel operat	ors mining less than	5,000 tons per year:			
1. Annual Permit Fee				\$ 300	
SIGNATURE OF APPLICANT	1	TITLE	utheast	DATE	
X. halace Foto	<u>u</u> ,	President, Di	utheast vision	1/12	/2004
Appeared before me this day or	anuary	,2004 ,	Plich	WEL VI	ERTSCH
to me personally known, who executed the a		s and deeds.			
NOTARY PUBLIC EMBOSSER SEAL STATE OF	0 0		COUNTY (OR C	CITY OF ST. LOUIS)	0 \
	O SWORN BEFORE ME, THIS		57.7	RMMANY	VARISH
)	/	NURCY YEAR 2004	USE RUBB	ER STAMP IN C	LEAR AREA BELOW.
NOTARY PUBLIC	GNATURE	MY COMMISSION EXPIRES			
Lah VV	MUXLI	AT DEATH	WAL	TER M. E	ABS7
NCTARY OF HIS V	NAME (TYPED OR PRINTED)	A DEATH	0	TARY PU	
1 1 /	TER M. B	ABSV	TX.	STAUT LA	با البا
FOR DEPARTMENT USE ONLY: APPROVED BY	DATE APPROVED	PERMIT NUM	3	EXPIRATION	
have from	3-2-	04 00%	<u> 7 </u>	2-	28-05
MO 780-1780 (12-02)					

MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION SITE INFORMATION FORM



To be completed for each seperate	area of disturbance wit	th mining operations	. 9	MISSOURI LAND	
SITE NAME OR NUMBER			PERMIT NUMBERLAWATION COMMISSION		
Appleton Quarry	67				
COMPANY NAME					
Martin Marietta Materia	·		1.2		
COUNTY	1/4 SECTIO)N		TION(S)	
Cape Girardeau	DANOS			50	
TOWNSHIP	RANGE		ACR		
T33N RIVER OR STREAM NAME (FOR I	R12E			80	
N/A	IN-STREAM ACRES)				
MINERAL COMMODITY			IESTIMATED TO	NS/YEAR (FOR GRAVEL SITES	
Limestone				·	
Limestone			N/A	<u> </u>	
NAME OF LANDOWNER (ATT)	+ 1 10T 15 14055 This	ONE			
NAME OF LANDOWNER (ATTACH		ONE)			
Hurst Family Partnersh ADDRESS	ip, inc.				
P. O. Box 151		STATE		ZIP CODE	
Perryville		JOTATE	MO	63775	
SOURCE OF RIGHT TO MINE (CH	HECK ONE)		IVIO	DATE OF AGREEMENT	
MINERAL DEED	·,	[V] LEAGE	<u>.</u>		
MINERAL DEED		X LEASE	LEASE 2/25/97		
WARRANTY DEED		VERBA	AL AGREEMENT		
OTHER (DESCRIBE):					
_					
		 -			
MINERAL RIGHTS OWNER (ATTA	CH LIST IF MORE TH	AN ONE)			
Same As Above		· ,			
	,				
ADDRESS					
		STATE		ZIP CODE	
ADDRESS		STATE		ZIP CODE	
ADDRESS	IECK ONE)	STATE		ZIP CODE DATE OF AGREEMENT	
ADDRESS CITY SOURCE OF RIGHT TO MINE (CH	IECK ONE)		:		
ADDRESS CITY SOURCE OF RIGHT TO MINE (CH	IECK ONE)	LEASE			
ADDRESS CITY SOURCE OF RIGHT TO MINE (CH	IECK ONE)	LEASE	: AL AGREEMENT		

MISSOURI DEPARTIMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

MINE PLAN

MMA- Appleton Quarry

P.O. BOX 176 Jefferson City, MO 65102

TYPE OF PLAN (CHECK ONE)	
SHORT TERM, FOR ONE PERMIT YEAR	
X LONG TERM, FOR PERIOD THROUGH DATE:	1/1/25
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	(BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL,
VEGETATION AND TOPOGRAPHY.	
Area is primarily rolling hills covered with vegetation con According to the local county Soil Survey, the predomin is Pits/Quarry. Only a small area on the extreme southwe overburden remaining. All available vegetation supporting for reclamation purposes. Only a minimum amount, if an segregated and stored separately Total overburden (material above mineral) varies from 5' 15'.	ant soil classification in this area est end of the property has any ng material will be retained ny topsoil thus topsoil will not be
ODEDATION DI ANI. 40 CCD 40 40 020/2VD/4	
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1. A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERI	AITTING IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	TO TO SOLE TO BE SOLE ON BIRDANNELS OF TONE
Minimal < 6"	YES OR X NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Post 1990 Areas of Disturbance:	
All Topsoil (A) and Subsoil (B) material will be removed	
earth moving equipment as deemed necessary by permi	
Topsoil (A) and Subsoil (B) material may be placed over	graded spoil/overburden from
previous cut.	
OR	ilad fau fistina na alamatian
Topsoil (A) and Subsoil (B) material may also be stocked to the st	
Topsoil (A) and Subsoil (B) removal operations will be minimize erosion	conducted in Such a manner as to
Pre 1990 Areas of Disturbance:	
Topsoil regulations do not apply.	
ropson regulations do not apply.	
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTE	CTION
Post 1990 Areas of Disturbance:	
Topsoil (A) and Subsoil (B) material that is to be stockpi	
dozers and/or other earth moving equipment as deemed	* * *
Topsoil (A) and Subsoil (B) storage operations will be o	conducted in such a manner as to.
minimize erosion	
Pre 1990 Areas of Disturbance: Topsoil regulations do not apply.	DECELVED
горзон гединацонз во постаррту.	NECEIALI.
	RECEIVED AUG - 5 1997
	Nod 3 1337 =
	MISSOURI LAND RECLAMATION COMMISSION

В		S	D	\cap	ı	ı	
	_		_	.,			

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Overburden removed from above the mineral deposit will be either returned to the previously mined areas of the pit or to other bonded areas.

Post 1990 Areas of Disturbance:

Overburden material will be sloped, as required by the regulations in place at time of original disturbance, prior to topsoil replacement.

Pre 1990 Areas of Disturbance:

Overburden material will be sloped as required by the regulations in place at time of original disturbance.

Slopes will generally be traversable by standard farm equipment depending upon final use.

Pre 1972 Areas of Disturbance (Pre-Law)

Areas desiginated as Pre 1972 are exempt from Land Reclamation Laws and Regulations.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW)

Layer(s) of shale may be slightly acidic.

If acidic shale material is present, material will be covered by non-acidic overburden materials to a minimum depth of 2'.

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT. IF NOT CLEAR ON SITE MAPS

Please see map(s)

YES	NO X	Will any excavation be at or within fifty feet (50) of the right-of-way of any publ	ic road?
	X	Will any highwall consisting of unconsolidated materials be left within fifty feet public road? (NOTE: For unconsolidated materials left in place, a slope of no start near the right-of-way, and in no case may the excavation be closer to the or twenty-five plus one and one-half (1-1/2) times the depth of unconsolidated greater, unless a variance is granted by the Commission.)	more than forty degrees may right-of-way than fifty feet
	X	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)	RECEIVED AUG - 5 1997 MISSOURI LAND
MO 780-132	7 (12-91)		RECLAMATION COMMISSION 2 OF 6

A. REVEGETATION (Attach additional sheets, if needed)

DELEGETATION AND ALL DELEGET OF A SECOND AND A SECOND A SECOND

REVEGETATION MIX # PURPOSE OR LAND USE B. SEEDING OR PLANTING TIME

1 Agricultural

March - June

August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

RECEIVED AUG - 5 1997

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

MISSOURI LAND RECLAMATION COMMISSION

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool S	Cool Season Grasses					Legumes				
Seeded Species		Pound	Pounds/Acre		Seeded	Seeded Species		Pounds/Acre		
Tall Fescue	1	2	PLS	(min)	Alfalfa		10	PLS	(min)	
Ryegrass	1	0	PLS	(min)	Red Clover		5	PLS	(min)	
Bromegrass	1	В	PLS	(min)	Lespedeza		10	PLS	(min)	
Orchardgrass	1 4	5	PLS	(min)	Crownvetch		10	PLS	(min)	
Timothy	4	4	PLS	(min)						
PLS = Pure Live Seed	(min) =	Minim	um appi	lication	rate if used		ļ			
REVEGETATION MIX #		PURPOS	E OR LAND	USE		B. SEEDING OR PL	ANTING TIME			
	2		Wildlife	9		March - Ja	une A	ugust - Oc	tober	

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

Where necessary, and after Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

Where necessary, and after Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by either using the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Warm Seas	on Grasses		Legumes				
Seeded Species	Pounds/Acre		Seeded Species	Pounds/Acre			
Switchgrass	4	PLS	(min)	Alfalfa	10	PLS	(min)
Big Bluestem	7	PLS	(min)	Red Clover	5	PLS	(min)
Indian Grass	7	PLS	(min)	Lespedeza	10	PLS	(min)
PLS = Pura Liva Sood	(main) - Min		1:4:	rate if used	L		

PLS = Pure Live Seed (min) = Minimum application rate if used

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.



MISSOURI LAND
RECLAMATION COMMISSION

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool Sease	on Gra	isse s		Warm Seaso	Warm Season Grasses Legumes		Legumes			
Seeded Species	Po	ounds/	Acre	Seeded Species	Pounds/	Acre	Seeded Species	Po	ounds/	Acre
Tall Fescue Ryegrass Bromegrass Orchardgrass	24 20 16 5	PLS PLS PLS PLS	(min) (min) (min) (min)	Switchgrass Big Bluestem Indian Grass	8 <i>PLS</i> 14 <i>PLS</i> 14 <i>PLS</i>	(min) (min) (min)	Alfalfa Red Clover Lespedeza	10 5 10	PLS PLS PLS	(min) (min) (min)
Timothy	4	PLS	(min)							
PLS = Pure Live Sec	ed		(min)	= Minimum application	on rate if use	ed	<u>, </u>	1		
REVEGETATION MIX #		4	!	PURPOSE OR LAND USE Industrial			B. SEEDING OR PLANTING March - June		ust - O	ctober

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or all of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool Seaso	n Grasses		Legumes				
Seeded Species Pounds/Acre		;	Seeded Species	Pounds/Acre			
Tall Fescue	12	PLS	(min)	Alfalfa	20	PLS	(min)
Ryegrass	10	PLS	(min)	Red Clover	10	PLS	(min)
Bromegrass	8	PLS	(min)	Lespedeza	20	PLS	(min)
Orchardgrass	5	PLS	(min)	Crownvetch	20	PLS	(min)
Timothy	4	PLS	(min)				, ,
PIS = Pure Live Seed	(min) = Mir	nimum ar	onlicati	ion rate if used			

PLS = Pure Live Seed (min) = Minimum application rate if use

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Agricultural Use:

All reclaimed areas will be graded so as to be traversable by standard farm equipment. All reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would support the intended use.

RECEIVED

MISSOURI LAND RECLAMATION COMMISSION

Wildlife Use:

All reclaimed areas will have a gradient suitable for wildlife.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Water Impoundment:

All reclaimed areas will meet guidelines/regulations in effect at time of reclamation and established by the appropriate regulatory agencies.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Industrial Use:

All reclaimed areas will be neat, orderly, and free of mining activity debris.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Note: All final reclamation uses to meet guidelines/regulations in place at time of original disturbance.

Note: Final Reclamation Uses, size, location, and configuration can be influenced by a variety of factors including, but not limited to: depth of mineral extraction, variations in quality of mineral being mined, and/or market demands.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading to be completed after mineral extraction and within one year of permit expiration. Grading variances may be requested for any areas requiring additional time.

REPLACEMENT OF TOPSOIL

Topsoil and Subsoil replacement to be completed after grading and within one year of permit expiration

Topsoil variances may be requested for any areas requiring additional time.

REVEGETATION

Revegetation to be completed after grading and/or topsoil/subsoil replacement and within two years of permit expiration

Revegetation variances may be requested for any areas requiring additional time.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

Post 1990 Areas of Disturbance = All vegetation supporting material will be used for revegetation						
D. USE OF LAND WHEN RECLAIMED						
Estimate acreage of each land use below, after reclamation	ESTIMATED	ACRES				
Wildlife (forest or other habitat with livestock excluded)						
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	15	(approx.)				
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.						
Agricultural (pasture, cropland, and horticultural)						
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	48	(approx.)				
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.						
Development (residential, industrial, and recreational)						
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	9	(approx.)				
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.						
Water impoundments (for wildlife, agricultural, or development)						
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	80	(approx.)				
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.						

MO 780-1327 (12-91) PAGE 5 OF 6

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED

AUG - 5 1997

MISSOURI LAND
RECLAMATION COMMISSION

	· · · · · · · · · · · · · · · · · · ·				
SIGNATURE OF APPLICANT		TITLE	Executive Vice Pro	esident	DATE
Man	essit .				7-23-57
NOTARY PUBLIC EMBOSSER SEAL	STATE / Sousias			COUNTY (OR CITY	
	SUBSCRIBED AND SWOI	RN BEFORE I	ME, THIS	Seffe	Eison
	3/et	DAY OF	Jus 1997		TAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC NAME (T	1	MY COMMISSION EXPIRES FOR LIFE NTED)		C. I.O.A K. JIN G. KYTLI NOTARY PUBLIC JEFFERSON P ARISH , LOUISIANA My Commission is Issued For Life
	Kenn 6). <i>F</i> 9	1		
APPROVED BY (DIRECTOR'S I	REPRESENTATIVE)		DATE APPROVED		PERMIT NUMBER
Mohen Z	Epili'		9-24-97		0067

MO 780-1327 (12-91)

MISSOURI COOPERATIVE EXTENSION SERVICE

Department of Agronomy
Extension Programs
214 Waters Hall
Columbia, MO 65211

Soil Test Report

Serial no.	C B 7	97	Lab no	00100
Area 26	C	ounty	016	Region 4
Submitted 12/28/	90		Proces O1/	ssed D3/91

	FIELD INFORMA	TION		
Field ID 1			ole no. 1	
Acres 7	Last Limed UNKNO	IN	Irrigated	NO
Last crop 1	COOL SEASON	GR	PAST	

Soil sample submitted by:

UNIVERSITY OF MISSOURI

ICOLN UNIVERSITY

This report is for:
FARMERS LIMESTONE
PO BOX 66
OLD APPLETON, MO 63770

SOII	SOIL TEST INFORMATION				RATING								
SUIL	I E O I IIVI	-OHI	VIAII	OIN		Very low	Lov	v	Medium	H	ligh	Very High E	xcess
pH _s				6. 1		****							
Phosphorus	(P)			17	lbs.a	*****	****	}					
Potassium	(K)			202	lbs a	****	***	****	***	F		-	
Calcium	(Ca)		3	3333	lbs a	*****	****	****	***	***	+		
Magnesium	(Mg)			954	lbs/a	****	****	****	****	***	**		
Sultur	(SO ₄ -S)				ppm								
Zinc	(Zn)				ppm								
Manganese	(Mn)				ppm			-					
Iron	(Fe)				ppm								
Copper	(Cu)				ppm					-			
Organic matter:	(. 4	%	Neutra	lizable	acidity	1.0	meq 100	g Cation	n Exchang	ge Capacit	y 13.6 r	neq 100g
Socium (Na)			lbs/a	Electri	cal Cor	nductivity		mmho/c	m				
			SUG	GEST	ED A	NNUAL TRE	ATMEN	TS				LIMECTON	15
						Yield		Pou	nds per a	cre		LIMESTON SUGGESTIC	
	Cropping op	tions				goal	N	P ₂ O ₅	K₂O	Zn	S	SUGGESTIC	SNIC
4 COOL SE	ASON G	RAS	SS E	EST	0		40	60	20			Effective neutralizing	
19 COOL 8	BEASON	GR	PAS	3T	16	O CD/A	95	40	3 5			material (ENM)	(
												Effective magnesium (EMg)	(

When N requirement for cool season grass exceeds 90 pounds per acre apply two-thirds in the period December through February and the remainder in August.

GERALD BRYAN

 (314)243-3581

Signature

MISSOURI COOPERATI SEXTENSION SERVICE

Department of Agronomy Extension Programs 214 Waters Hall Columbia, MO 65211

Soil Test Report

Serial_no.	C8796	Lap no 00099
Area 🚄 🖰	County	Region 4
Submitted 12/28/	90	Processed 01/03/91

	FIELD INFO	MATION		
Field ID 1		Sam	ple no. 1	
	Last Limed UNK			NO
Last crop 1°	COOL SEAS	ON GR	PAST	

Soil sample submitted by:

UNIVERSITY OF MISSOURI

& L DLN UNIVERSITY

This report is for:
PERRY COUNTY STONE
RT 3, BOX 115
PERRYVILLE, MO 63775

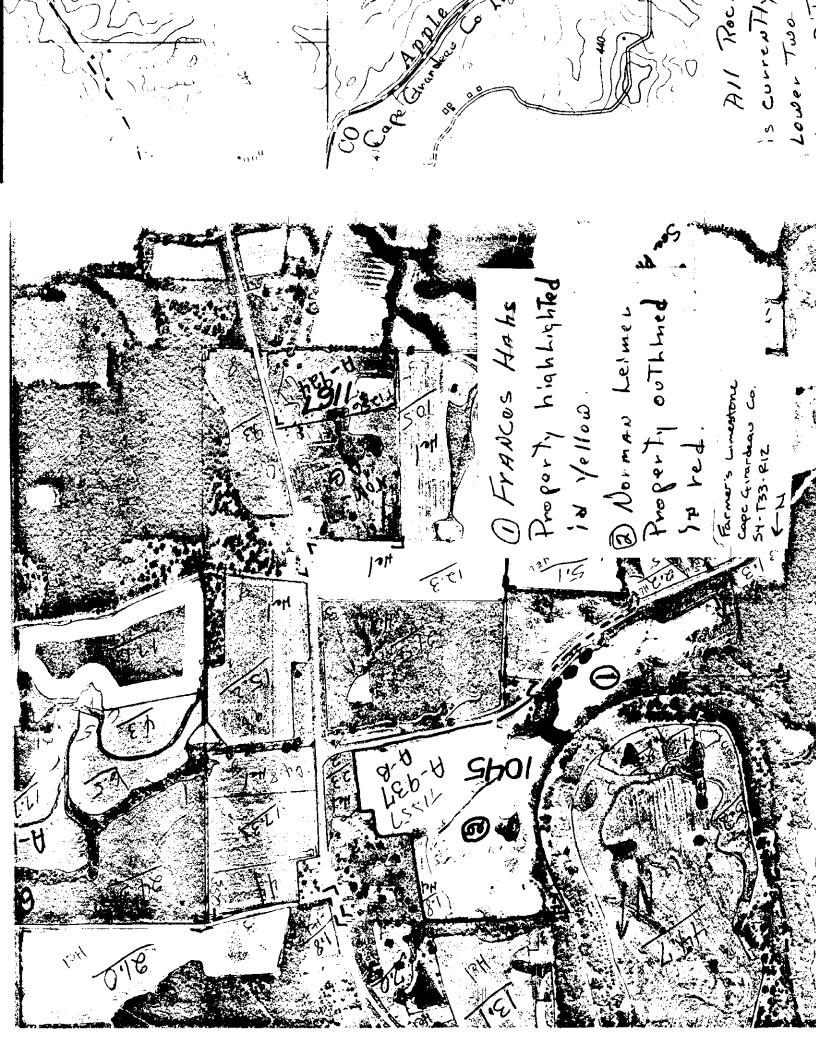
2011	TECT INC	CODMANT	IONI					R/	ATING			
SOIL	SOIL TEST INFORMATION				Very low	Lov	v	Medium	Н	ligh	Very High Ex	cess
pH _s			5 . 0		*****	****	ł ·					
Phosphorus	(P)		21	lbs/a	*****	****	****					
Potassium	(K)		101	lbs/a	*****	****	+					
Calcium	(Ca)		2187	lbs/a	****	****	****	***				
Magnesium	(Mg)		862	lbs/a	****	****	****	****	****	***		
Sulfur	(SO ₄ -S)			ppm					•			
Zinc	(Zn)			ppm								
Manganese	(Mn)			ppm								
Iron	(Fe)			ppm								
Copper	(Cu)			ppm								
Organic matter:	0	. 2 %	Neutra	lizable	acidity	2. 0	meq 100	g Cation	Exchang	e Capac	ity 11.2 m	eq 100g
Sodium (Na)		lbs/a	Electri	cal Cor	nductivity		mmho c	m				
		SU	GGES1	ED A	NNUAL TRE	ATMEN	TS				LIMECTON	
					Yield		Pou	ınds per ac	re		LIMESTON SUGGESTIO	
	Cropping op	tions			goal	N	P ₂ O ₅	K ₂ O	Zn	S	J SUGGESTIO	143
4 COOL SE	EASON G	RASS	EST	0		40	50	45			Effective neutralizing	
19 COOL 9	SEASON	GR PA	ST	16	O CD/A	95	30	70			material (ENM)	485
											Effective magnesium (EMg)	C

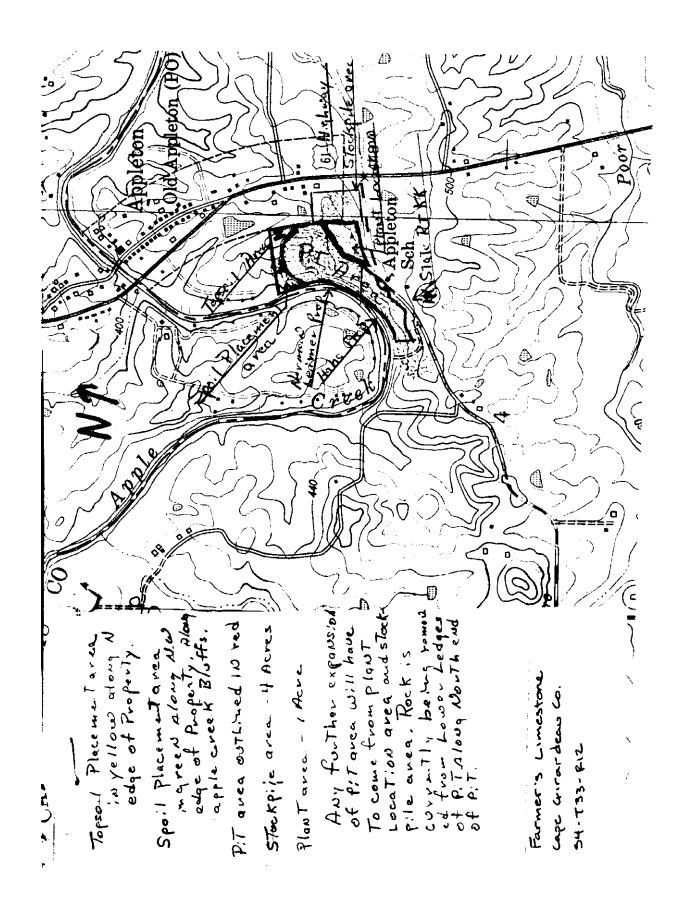
To determine limestone needed in tons/acre, divide your ENM requirement by the guarantee of your limestone dealer.

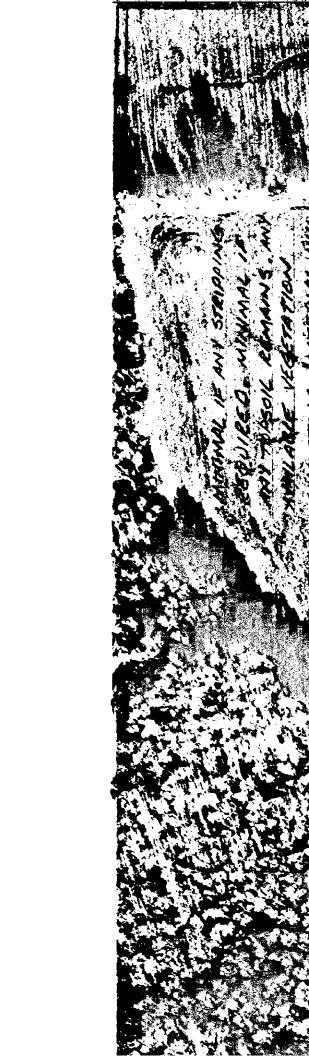
When N requirement for cool season grass exceeds 90 pounds per acre apply two-thirds in the period December through February and the remainder in August.

GERALD BRYAN

 (314)243-3581 Phone Signature







MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION SITE INFORMATION FORM



To be completed for each seperate	area of disturbance with minii	ng operations		RECLAMATION CON
SITE NAME OR NUMBER			PERMIT NUMBE	•••
Van Buren Quarry COMPANY NAME		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		67
Martin Marietta Materia	le Inc			
COUNTY	1/4 SECTION		SEC	TION(S)
Carter			ł	4
TOWNSHIP	RANGE		ACR	
T27N	R01E			133
RIVER OR STREAM NAME (FOR	IN-STREAM ACRES)			· · · · · · · · · · · · · · · · · · ·
N/A				
MINERAL COMMODITY			ESTIMATED TO	NS/YEAR (FOR GRAVEL SITES)
Limestone			N/A	\
NAME OF LANDOWNER (ATTACI	H LIST IF MORE THAN ONE)		
Hurst Family Partnersh	nip, Inc.			
ADDRESS				
P. O. Box 151				
CITY		STATE		ZIP CODE
Perryville	IFOX ONE)		MO	63775
SOURCE OF RIGHT TO MINE (CH	HECK ONE)	<u> </u>		DATE OF AGREEMENT
MINERAL DEED		X LEASE		2/25/97
WARRANTY DEED		VERB/	AL AGREEMENT	
OTHER (DESCRIBE):				

MINERAL RIGHTS OWNER (ATT)	ACH LIST IF MORE THAN C	NE)		
Same As Above				
ADDRESS				
	<u> </u>	····	· · · · · · · · · · · · · · · · · · ·	
CITY		STATE		ZIP CODE
SOURCE OF RIGHT TO MINE (CI	HECK ONE)			DATE OF AGREEMENT
				DATE OF AUNCEMENT
MINERAL DEED		LEASE		
WARRANTY DEED		VERB	AL AGREEMENT	
OTHER (DESCRIBE):				

MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION MINE PLAN

\(\)

MMA- Van Buren Quarry P.O. BOX 176

Jefferson City, MO 65102

TYPE OF PLAN (CHECK ONE)		
SHORT TERM, FOR ONE PERMIT YEAR		
X LONG TERM, FOR PERIOD THROUGH DA	TE: 1/1/25	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMAT VEGETATION AND TOPOGRAPHY.	ION COMMISSION PERMITTING (BY APPLICAN	IT OR PRIOR OPERATOR), INCLUDING SOIL,
Area is primarily rolling hills cover According to the local county So characteristics of the following so Clarksville Series 42C;42D; & 42F Total overburden (material above 20'.	il Survey, predominant soils in t oil series: ī; Very Cherty Silt Loam	
OPERATION BLAN. 40 CCD 40 40	20/0//D14	
OPERATION PLAN - 10 CSR 40-10.0 A. TOPSOIL	(2)(D)1.	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RE	ECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	A + BE = Approx. 8"	YES OR X NO
Post 1990 Areas of Disturbance: All Topsoil (A) and Subsoil (B) mearth moving equipment as deen Topsoil (A) and Subsoil (B) mater previous cut. OR Topsoil (A) and Subsoil (B) mater Topsoil (A) and Subsoil (B) mater Topsoil (A) and Subsoil (B) remminimize erosion Pre 1990 Areas of Disturbance: Topsoil regulations do not apply.	naterial will be removed using so ned necessary by permittee. rial may be placed over graded s erial may also be stockpiled for t oval operations will be conduct	spoil/overburden from future reclamation.
Post 1990 Areas of Disturbance: Topsoil (A) and Subsoil (B) mater dozers and/or other earth moving Topsoil (A) and Subsoil (B) storminimize erosion Pre 1990 Areas of Disturbance: Topsoil regulations do not apply.	rial that is to be stockpiled, will g equipment as deemed necessa age operations will be conducte	nry by permittee.
		RECEIVED
		MISSOLIRITAND

D. 3F	/IL	
DESCRIBE	METHODS	AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL
		removed from above the mineral deposit will be either returned to the
•	_	nined areas of the pit or to other bonded areas.
		s of Disturbance:
		material will be sloped, as required by the regulations in place at time of original
	-	prior to topsoil replacement. of Disturbance:
		material will be sloped as required by the regulations in place at time of original
	urbance.	· · · · · · · · · · · · · · · · · · ·
		erally be traversable by standard farm equipment depending upon final use.
-	_	of Disturbance (Pre-Law)
		inated as Pre 1972 are exempt from Land Reclamation Laws and Regulations.
C. ACI	D MATE	RIALS
DESCRIBE	METHODS	AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW)
Lav	er(s) of s	shale may be slightly acidic.
•	, -	le material is present, material will be covered by non-acidic overburden
		a minimum depth of 2'.
PIT I	NFORMA	TION (GIVE ALL DIMENSIONS IN FEET)
DESCRIB	LOCATION	AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
Ple	ese see r	nap(s)
		$\mathbf{D}_{\mathbf{F},\mathbf{C}_{\mathbf{F}}}$
		R_{FER2a}^{ECEIVE}
		FEB 2 3 2000 D
		AAISO-
		RECIAMATIO URI LAND
		MISSOURI LAND RECLAMATION COMMISSION
		TWON .
YES	NO	
	X	Will any excavation be at or within fifty feet (50) of the right-of-way of any public road?
لــا	لکا	will any excavation be at or within inty reat (50) or the hight-or-way or any public road:
	X	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any
-		public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may
		start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet
		or twenty-five plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is
		greater, unless a variance is granted by the Commission.)
		——————————————————————————————————————
	X	Will any excavation start at or within fifty feet (50') of any property line?
		(NOTE: If the answer is "yes", a safety barrier may be needed.)
		() The same state of the same

MO 780-1327 (12-91)

RECLAMATION PLAN - 10 CSR 40-1	0.0° ?)(D)2.		MMA- Van Buren Quarry
A. REVEGETATION (Attach additional sh	neets, ir needed)		
REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME	
1	Agricultural	March - June	August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool S	eason Gras	ses				Leg	umes		
Seeded Species		Pour	nds/Acre		Seeded	Species	F	ounds/Acre	· · · · · · · · · · · · · · · · · · ·
Tall Fescue	1	2	PLS	(min)	Alfalfa		10	PLS	(min)
Ryegrass	1	0	PLS	(mln)	Red Clover		5	PLS	(min)
Bromegrass		3	PLS	(min)	Lespedeza		10	PLS	(min)
Orchardgrass		5	PLS	(min)	Crownvetch		10	PLS	(min)
Timothy	•	4	PLS	(min)					
PLS = Pure Live Seed	(min) =	Mini	mu m app	lication	rate if used		<u> </u>	······································	
REVEGETATION MIX #		PURPO	SE OR LAND	USE		B. SEEDING OR PL	ANTING TIME		
	2		Wildlife	₽		March - J	lune	August - Oc	tober

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

Where necessary, and after Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

Where necessary, and after Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by either using the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Warm Se	ason Grasses			Leg	umes		
Seeded Species	Pou	inds/Acre		Seeded Species	Pou	nds/Acre	
Switchgrass	4	PLS	(min)	Alfalfa	10	PLS	(min)
Big Bluestem	7	PLS	(min)	Red Clover	5	PLS	(min)
Indian Grass	7	PLS	(min)	Lespedeza	10	PLS	(min)
				D			
PLS = Pure Live Seed	(min) = Min	imum app	lication	rate if used CRTY			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

MISSOURI LAND RECLAMATION COMMISSION A. REVEGETATION (Attach additional sheets, ir needed)

REVEGETATION MIX #

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

2

Water Impoundments

March - June

August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoli / Subsoli replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch

will be applied to all slopes exceeding 5:1.

Cool Season Grasses			Warm Seaso	on Grasses	Legumes			
Seeded Species	Po	unds/	Acre	Seeded Species	Pounds/	Acre	Seeded Species	Pounds/Acre
Tall Fescue Ryegrass Bromegrass Orchardgrass Timothy	24 20 16 5 4	PLS PLS PLS PLS PLS	(min) (min) (min) (min) (min)	Switchgrass Big Bluestem Indian Grass	8 PLS 14 PLS 14 PLS	(min) (min) (min)	Alfaifa Red Clover Lespedeza	10 PLS (mi 5 PLS (mi 10 PLS (mi
PLS = Pure Live Se	ed		(min)	 = Minimum a pplicati	on rate if us	ed		<u> </u>
REVEGETATION MIX #				PURPOSE OR LAND USE			B. SEEDING OR PLANTING	TIME
		4	ţ.	Industrial			March - June	August - Octob

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoli / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.



Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the CLANNATION COMMISSION ROLL AND local soll regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or all of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool Seasor	Grasses		Legumes				
Seeded Species	Pou	nds/Acre)	Seeded Species	Pou	nds/Acre	
Tall Fescue	12	PLS	(min)	Alfalfa	20	PLS (min	
Ryegrass	10	PLS	(min)	Red Clover	10	PLS (min	
Bromegrass	8	PLS	(min)	Lespedeza	20	PLS (min	
Orchardgrass	5	PLS	(min)	Crownvetch	20	PLS (min	
Timothy	4	PLS	(min)				
PLS = Pure I ive Seed	(min) = Mi	nimum a	nnlica	tion rate if used			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Aaricultural Use:

All reclaimed areas will be graded so as to be traversable by standard farm equipment. All reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would support the intended use.

Wildlife Use:

All reclaimed areas will have a gradient suitable for wildlife.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Water Impoundment:

All reclaimed areas will meet guidelines/regulations in effect at time of reclamation and established by the appropriate regulatory agencies.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Industrial Use:

All reclaimed areas will be neat, orderly, and free of mining activity debris.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.



Note: All final reclamation uses to meet guidelines/regulations in place at time of original disturbance.

Note: Final Reclamation Uses, size, location, and configuration can be influenced by a variety of factors including, but not limited to: depth of mineral extraction, variations in quality of mineral being mined, and/or market demands.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading to be completed after mineral extraction and within one year of permit expiration. Grading variances may be requested for any areas requiring additional time.

REPLACEMENT OF TOPSOIL

Topsoil and Subsoil replacement to be completed after grading and within one year of permit expiration

Topsoil variances may be requested for any areas requiring additional time.

REVEGETATION

Revegetation to be completed after grading and/or topsoil/subsoil replacement and within two years of permit expiration

Revegetation variances may be requested for any areas requiring additional time.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

Post 1990 Areas of Disturbance = 8" (A + BE Zone)

D. HOP OF LAND MILEN DECK ANDED		
D. USE OF LAND WHEN RECLAIMED		
Estimate acreage of each land use below, after reclamation	ESTIMATED	ACRES
Wildlife (forest or other habitat with livestock excluded)		
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	87	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.		
Agricultural (pasture, cropland, and horticultural)		
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	3	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.		
Development (residential, industrial, and recreational)		
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	15	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.	1	
Water impoundments (for wildlife, agricultural, or development)		:
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	28	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.		

MO 780-1327 (12-91) PAGE 5 OF 6

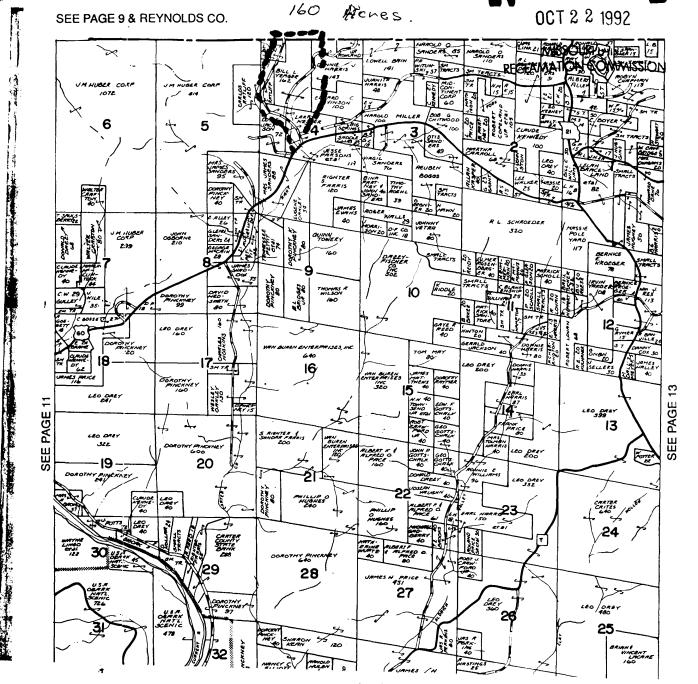
By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED

MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	> !^	TITLE	President Central	Division	2/8/00	
NOTARY PUBLIC EMBOSSER SEAL	STATE JOURIAN SUBSCRIBED AND SWO			COUNTY (OR CITY	OF ST. LOUIS)	
	1000	DAYOFFE	huay 18	USE RUBBER S	TAMP IN CLEAR AREA BELOV	V
	NOTARY PUBLIC SIGNATION OF THE PUBLIC MANE (T		MY COMMISSION EXPIRES DESCRIPTION TEO)	e mar his	KEVIN G. FOTLE NOTARY PUBLIC SON PARCELLIS IN INC.	-
APPROVED BY (DIRECTOR'S R	EPRESENTATIVE)	,	DATE APPROVED		PERMIT NUMBER	
MIMS			AUgust	7,2000	8067	
MO 780-1327 (12-91))		\sim ν	,	PAGE 6 OF	S 4

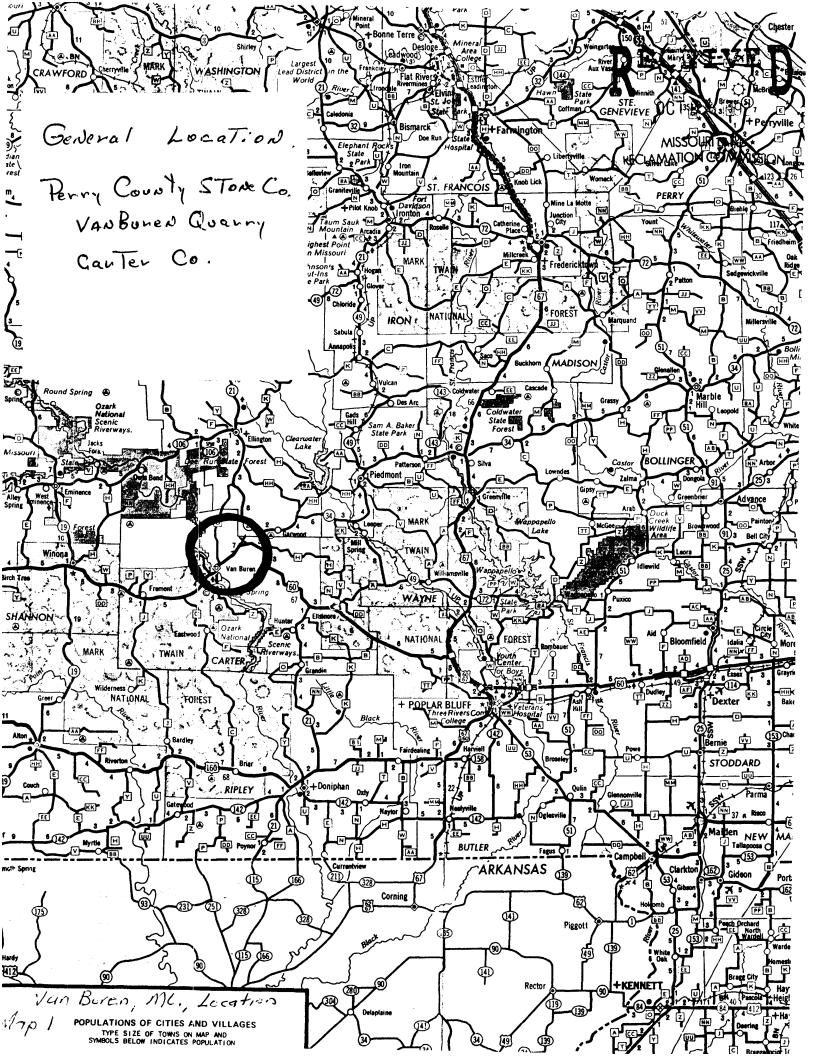


Van Buren, 170., Location Map 2

GIZEEN FIZE CEPY Property Location Penny County STONE Co VANBUNED Quarry Carter Co.

4.5 Miles east of VAN Buren off RT 60 ON County Rd 306





MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

To be completed for each seperate area	of disturbance with mining	operations				
SITE NAME OR NUMBER	magging (Silver) (Silver) (Silver) Aliana (Aliana I. arange di agree dee dee esta yyjajajani a	PERM	PERMIT NUMBER			
Perryville Quarry			67			
COMPANY NAME						
Martin Marietta Materials,	Inc.					
COUNTY	1/4 SECTION		SECTION(S)			
Perry	<u> </u>		19			
TOWNSHIP	RANGE		ACRES	_		
T36N	R11E		28	i/		
RIVER OR STREAM NAME (FOR IN S	PERMININES)					
N/A MINERAL COMMODITY		lestus	ATED TONS/YEAR (FOR G	RAVEL SITES		
Limestone		2011101	N/A			
LiffColumn		i	MA			
NAME OF LANDOWNER (ATTACH LI	ST IF MORE THAN ONE)					
Hurst Family Partnership	•					
ADDRESS	; 1110.					
P. O. Box 151						
СІТҮ		STATE	ZIP CODE			
Perryville		MO		63775		
SOURCE OF RIGHT TO MINE (CHEC	K ONE)	e equipment and a second a second and a second a second and a second a	DATE OF A	GREEMENT		
MINERAL DEED		X LEASE		2/25/97		
WARRANTY DEED		VERBAL AGREEMENT				
OTHER (DESCRIBE)						
MINERAL RIGHTS OWNER (ATTACH	LIST IF MORE THAN ON	IE)				
Same As Above		The same with the same particular to the same same same same same same same sam				
ADDRESS						
CITY		İSTATE	ZIP CODE			
Çil I		SIMIE	ZIP CODE			
SOURCE OF RIGHT TO MINE (CHEC	CK ONE)	<u> </u>	DATE OF A	AGREEMENT		
MINERAL DEED		LEASE				
WARRANTY DEED		VERBAL AGR	EEMENT			
OTHER (DESCRIBE)	erani i i i i i i i i i i i i i i i i i i			· · · · · · · · · · · · · · · · · · ·		
OTHER (DESCRIBE) NOTE: Each site must be show MO 780 1036 (12-91)	n on a map and be in	cluded in a public no	otice and an amrewed n	n <u>ine p</u> ian		
MO 780 1035 (12-91)	A CONTRACTOR OF THE PROPERTY O		KEC	EIVEN		
			11 FER	2222		
			~υ	~ 3 2000		

MISSOURI LAND RECLAMATION COMMISS

MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

MMA- Perrys.
P.O. BOX 176
Jefferson City, MO, 651

MINE PLAN Jefferson City, MO 65102 TYPE OF PLAN (CHECK ONE) SHORT TERM, FOR ONE PERMIT YEAR 1/1/25 X LONG TERM, FOR PERIOD THROUGH DATE: DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY. Area is primarily rolling hills covered with vegetation consisting of trees, shrubs, and grasses. According to the local county Soil Survey, predominant soils in this area exhibit typical characteristics of the following soil series: Menfro Series 1E2 (Menfro Silt Loam) Gasconade Series (< 40" Soil over Bedrock) Total overburden (material above mineral) varies from 10' 20'. OPERATION PLAN - 10 CSR 40-10.020(2)(D)1. A. TOPSOIL AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE? Menfro Ap + Bt1 + Bt2 = Approx. 15" YES OR X NO Gasconade A1 + A2 = Approx. 9" DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL Post 1990 Areas of Disturbance: All Topsoil (A) and Subsoil (B) material will be removed using scrapers, dozers, and/or other earth moving equipment as deemed necessary by permittee. Topsoil (A) and Subsoil (B) material may be placed over graded spoil/overburden from previous cut. OR Topsoil (A) and Subsoil (B) material may also be stockpiled for future reclamation. Topsoll (A) and Subsoil (B) removal operations will be conducted in such a manner as to minimize erosion Pre 1990 Areas of Disturbance: Topsoil regulations do not apply. DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION Post 1990 Areas of Disturbance: Topsoil (A) and Subsoil (B) material that is to be stockpiled, will be placed by scrapers, dozers and/or other earth moving equipment as deemed necessary by permittee. Topsoil (A) and Subsoil (B) storage operations will be conducted in such a manner as to. minimize erosion Pre 1990 Areas of Disturbance: Topsoil regulations do not apply.

Overt previo Post 199 Overt distur Pre 1990 Overt distur Slopes v Pre 1972	burden a ously m O Areas burden a Dareas Durden rbance. Vill gene O Areas	IND LOCATION OF SPOIL PLACEMENT AND DISPOSAL removed from above the mineral deposit will be either returned to the sined areas of the pit or to other bonded areas. It of Disturbance: Imaterial will be sloped, as required by the regulations in place at time of original Imprior to topsoil replacement. In Disturbance: Imaterial will be sloped as required by the regulations in place at time of original Imprior to topsoil replacement. Imprior to topsoil replacement. In Disturbance: Imaterial will be sloped as required by the regulations in place at time of original Imprior to topsoil replacement. Imprior to topsoil to topsoil to topsoi
C. ACID		RIALS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW)
Layer If acid	r(s) of s dic shal	hale may be slightly acidic. le material is present, material will be covered by non-acidic overburden a minimum depth of 2'.
DESCRIBE L		TION (C DIMENSIONS IN FEET) AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS PAP(S)
YES	NO X	Will any excavation be at or within fifty feet (50) of the right-of-way of any public road? Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any
		public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twerity-five plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
	X	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.) EEB 2.3 2000 PAGE 2 OF 6
MO 780-1327 (12-91)	MISSOURI LAND PAGE 2 OF 6

MO 780-1327 (12-91)

RECLAMATION PLAN - 10 CSR 40-10.0

A. REVEGETATION (Attach additional sheets, in needed)

B. SEEDING OR PLANTING TIME PURPOSE OR LAND USE REVEGETATION MIX # August - October

Agricultural March - June

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool Season Grasses					Legumes				
Seeded Species		Pour	nds/Acre		Seeded	Species	Po	ounds/Acre	
Tall Fescue	1	2	PLS	(min)	Alfalfa		10	PLS	(min)
Ryegrass	1	0	PLS	(min)	Red Clover		5	PLS	(min)
Bromegrass		В	PLS	(min)	Lespedeza	Į	10	PLS	(min)
Orchardgrass		5	PLS	(min)	Crownvetch		10	PLS	(min)
Timothy		4	PLS	(min)					
PLS = Pure Live Seed	(min) =	= Mini	mum app	lication	rate if used		***************************************		
REVEGETATION MIX #		PURPO	SE OR LAND	USE		B. SEEDING OR PLAN	TING TIME		
	2		Wildlif	e		March - Jui	10	August - Oc	tober

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

Where necessary, and after Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

Where necessary, and after Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by either using the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Warm So	eason Gras <mark>s</mark> es	Legumes					
Seeded Species	Pou	ınds/Acre		Seeded Species	Pou	nds/Acre	
Switchgrass	4	PLS	(min)	Alfalfa	10	PLS	(min)
Big Bluestem	7	PLS	(min)	Red Clover	5	PLS	(min)
Indian Grass	7	PLS	(min)	Lespedeza	10	PLS	(min)
					CIVE	\boldsymbol{U}	
PLS = Pure Live Seed	(min) = Min	imum app	licatio	n rate if used T.F.C	C	11	

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

MISSOURI LAND RECLAMATION COMMISSION Water Impoundments

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

3

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch

will be applied to all slopes exceeding 5:1.

Cool Seaso	Cool Season Grasses			Warm Seaso	on Grasses		Legumes			
Seeded Species	Po	unds/	Acre	Seeded Species	Pounds/	Acre	Seeded Species	Pounds/Acre		
Tall Fescue Ryegrass Bromegrass Orchardgrass Timothy	24 20 16 5 4	PLS PLS PLS PLS PLS	(min) (min) (min) (min) (min)	Switchgrass Big Bluestem Indian Grass	8 PLS 14 PLS 14 PLS	(min) (min) (min)	Alfalfa Red Clover Lespedeza	10 PLS (min) 5 PLS (min) 10 PLS (min)		
PLS = Pure Live Se	ed		(min)	= Minimum applicati	on rate if us	sed				
REVEGETATION MIX #	REVEGETATION MIX #			PURPOSE OR LAND USE			B. SEEDING OR PLANTING TIME			
		4	1	Industrial			March - June	August - October		

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or all of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch

will be applied to all slopes exceeding 5:1.

Cool Seaso	on Grasses	Legumes					
Seeded Species	Pounds/Acre		Seeded Species	Pounds/Acre			
Tall Fescue	12	PLS	(min)	Alfalfa	20	PLS	(min)
Ryegrass	10	PLS	(min)	Red Clover	10	PLS	(min)
Bromegrass	8	PLS	(min)	Lespedeza	20	PLS	(min)
Orchardgrass	5	PLS	(min)	Crownvetch	20	PLS	(min)
Timothy	4	PLS	(min)				
PLS = Pure Live Seed	(min) = M i	nimum a	pplicat	ion rate if used	<u> </u>		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

FFB 23 2000

PAGE 4 OF 6

August - October

March - June

MISSOURI LAND RECLAMATION COMMISSION

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Agricultural Use:

All reclaimed areas will be graded so as to be traversable by standard farm equipment. All reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would support the intended use.

Wildlife Use:

All reclaimed areas will have a gradient suitable for wildlife.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Water Impoundment:

All reclaimed areas will meet guidelines/regulations in effect at time of reclamation and established by the appropriate regulatory agencies.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Industrial Use:

All reclaimed areas will be neat, orderly, and free of mining activity debris.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Note: All final reclamation uses to meet guidelines/regulations in place at time of original disturbance.

Note: Final Reclamation Uses, size, location, and configuration can be influenced by a variety of factors including, but not limited to: depth of mineral extraction, variations in quality of mineral being mined, and/or market demands.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading to be completed after mineral extraction and within one year of permit expiration. Grading variances may be requested for any areas requiring additional time.

REPLACEMENT OF TOPSOIL

Topsoil and Subsoil replacement to be completed after grading and within one year of permit expiration

Topsoil variances may be requested for any areas requiring additional time.

REVEGETATION

Revegetation to be completed after grading and/or topsoil/subsoil replacement and within two years of permit expiration

Revegetation variances may be requested for any areas requiring additional time.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

Post 1990 Areas of Disturbance = Menfro = Approx. 15", Gasconade = Approx. 9"

D. USE OF LAND WHEN RECLAIMED	T	***************************************
Estimate acreage of each land use below, after reclamation	ESTIMATED	ACRES
Wildlife (forest or other habitat with livestock excluded)		
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	99	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.		
Agricultural (pasture, cropland, and horticultural)		
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	63	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.		
Development (residential, industrial, and recreational) Pre-Mining Law Area; No Reclamation	25	(approx.)
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	16	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.		
Water impoundments (for wildlife, agricultural, or development)		
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	84	(approx.)
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.	1	:

MO 780-1327 (12-91) PAGE 5 OF 6

By my signature, I altest to the following:

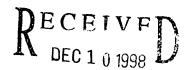
- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. Lor the company Lam authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and Ligrant such access and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	President Central	Division	2/9/00
and the state of t	claro ID 7 VO HN BEHORI	the related 1984 (All Company of the season	COUNTY (OR CITY	r of St. Louis)
10tg/		greay 18	USE RUBBER	STAMP IN CLEAR AREA BELOW
Mi Nevin	94 6 S	for life	NOT IFF 450N	/IN G. RYTHE FARY PUELIC L PARISH, LCUIN'A M ON IS 188
APPROVED TOTAL ON S REPRESENTATIVE		DATE APPROVED		PERMIT NUMBER
MIMIN Seam	W.	August	F12000	0067
MO Ten Core (pulse)		REC	2 2 2000 .	PAGE 6 OF 6

MISSOURI LAND
RECLAMATION COMMISSION



MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION SITE INFORMATION FORM



To be completed for each seperate area of di			MISSOURI LAND RECLAMATION COMMISSIC			
SITE NAME OR NUMBER			PERMIT NU	MBER	The state of the s	
Barnhart Quarry			67			
COMPANY NAME						
Martin Marietta Materials, Inc.	·					
COUNTY	NTY 1/4 SECTION				(S)	
Jefferson				32		
TOWNSHIP	RANGE		14	CRES		
T42N	R06E				88	
RIVER OR STREAM NAME (FOR IN-STREA	AM ACRES)					
N/A					· · · · · · · · · · · · · · · · · · ·	
MINERAL COMMODITY			ESTIMATE	TONS/Y	'EAR (FOR GRAVEL SITES)	
Limestone				N/A		
NAME OF LANDOWNER (ATTACH LIST IF	MORE THAN ONE)					
Martin Marietta Materials, Inc.	•					
ADDRESS						
160 James Drive East Suite 2	00					
CITY		STATE			ZIP CODE	
St. Rose			LA		70087	
SOURCE OF RIGHT TO MINE (CHECK ON	E)				DATE OF AGREEMENT	
MINERAL DEED	[LEASI	E		NA NA	
X WARRANTY DEED	[VERB	RBAL AGREEMENT			
OTHER (DESCRIBE):						
				<u></u>		
MINERAL RIGHTS OWNER (ATTACH LIST	IF MORE THAN ONE)					
Same As Above	·					
ADDRESS						
CITY		STATE	115		ZIP CODE	
SOURCE OF RIGHT TO MINE (CHECK ON	IE)	 ·			DATE OF AGREEMENT	
MINERAL DEED	[LEAS	E			
WARRANTY DEED VERBAL AGREEMENT						
OTHER (DESCRIBE):						
NOTE: Each site must be shown on a	a map and be include	d in a put	olic notice a	nd an ap	pproved mine plan.	

MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

DEC 1 0 1998 BOX 176

MINE PLAN Jefferson City, MO 65102 TYPE OF PLAN (CHECK ONE) MISSOURI LAND RECLAMATION COMMISSION SHORT TERM, FOR ONE PERMIT YEAR 1/1/25 x LONG TERM, FOR PERIOD THROUGH DATE: DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY. Area is primarily relling hills covered with vegetation consisting of trees, shrubs, and grasses. According to the local county Soil Survey, the predominant soil classification in this area is Pits/Quarry. All available vegetation supporting material will be retained for reclamation purposes. Only a minimum amount, if any topsoil thus topsoil will not be segregated and stored separately. Total overburden (material above mineral) varies from 15' 60', including waste sandstones above the Kimmswick and Plattin limestones. OPERATION PLAN - 10 CSR 40-10.020(2)(D)1. A. TOPSOIL AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE? YES OR X NO Minimal < 6" DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL Post 1990 Areas of Disturbance: All Topsoil (A) and Subsoil (B) material will be removed using scrapers, dozers, and/or other earth moving equipment as deemed necessary by permittee. Topsoil (A) and Subsoil (B) material may be placed over graded spoil/overburden from previous cut. OR Topsoil (A) and Subsoil (B) material may also be stockpiled for future reclamation. Topsoil (A) and Subsoil (B) removal operations will be conducted in such a manner as to minimize erosion Pre 1990 Areas of Disturbance: Topsoil regulations do not apply. DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION Post 1990 Areas of Disturbance: Topsoil (A) and Subsoil (B) material that is to be stockpiled, will be placed by scrapers, dozers and/or other earth moving equipment as deemed necessary by permittee. Topsoil (A) and Subsoil (B) storage operations will be conducted in such a manner as to. minimize erosion Pre 1990 Areas of Disturbance: Topsoil regulations do not apply.

MMA- Barnhart Quarry B. SPOIL DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL Overburden removed from above the mineral deposit will be either returned to the previously mined areas of the pit or to other bonded areas. Post 1990 Areas of Disturbance: Overburden material will be sloped, as required by the regulations in place at time of original disturbance, prior to topsoil replacement. Pre 1990 Areas of Disturbance: Overburden material will be sloped as required by the regulations in place at time of original disturbance. Slopes will generally be traversable by standard farm equipment depending upon final use. Pre 1972 Areas of Disturbance (Pre-Law) Areas designated as Pre 1972 are exempt from Land Reclamation Laws and Regulations. C. ACID MATERIALS DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW) Layer(s) of shale may be slightly acidic. If acidic shale material is present, material will be covered by non-acidic overburden materials to a minimum depth of 2'. MISSOURI LAND RECLAMATION COMMISSION PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET) DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS Please see map(s) YES NO X Will any excavation be at or within fifty feet (50) of the right-of-way of any public road? Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is

greater, unless a variance is granted by the Commission.)

Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

MO 780-1327 (12-91)

Χ|

August - October

A. REVEGETATION (Attach additional sheets, if needed)

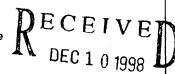
REVEGETATION MIX # PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME 1 March - June Agricultural

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.



Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

MISSOURI LAND RECLAMATION COMMISSION

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool Se	ason Grasses	Legumes						
Seeded Species	Pou	nds/Acre		Seeded Species	Pou	nds/Acre		
Tall Fescue	12	PLS	(min)	Alfalfa	10	PLS	(min)	
Ryegrass	10	PLS	(min)	Red Clover	5	PLS	(min)	
Bromegrass	8	PLS	(min)	Lespedeza	10	PLS	(min)	
Orchardgrass	5	PLS	(min)	Crownvetch	10	PLS	(min)	
Timothy	4	PLS	(min)					
PLS = Pure Live Seed	(min) = Mini	mum app	lication	rate if used	Ш			

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME	
2	Wildlife	March - June	August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

Where necessary, and after Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

Where necessary, and after Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by either using the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Warm Seas	on Grasses	Legumes					
Seeded Species	Seeded Species Pounds/Acre		/Acre Seeded Species		Pounds/Acre		
Switchgrass	4	PLS	(min)	Alfalfa	10	PLS	(min)
Big Bluestem	7	PLS	(min)	Red Clover	5	PLS	(min)
Indian Grass	7	PLS	(min)	Lespedeza	10	PLS	(min)
DIC - Down Live Coard	<u> </u>				<u> </u>		

PLS = Pure Live Seed (min) = Minimum application rate if used

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #

PURPOSE OR LAND USE

Water Impoundments

March - June

B. SEEDING OR PLANTING TIME

August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

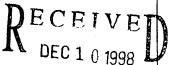
3

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.



MISSOURI LAND RECLAMATION COMMISSION

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or any combination of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quartity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

Cool Seas	on Gra	sses		Warm Seaso	on Grasses		Legumes			
Seeded Species	Po	ounds/	Acre	Seeded Species	Pounds/	Acre	Seeded Species	Po	ounds/	Acre
Tall Fescue	24	PLS	(min)	Switchgrass	8 PLS	(min)	Alfalfa	10	PLS	(min)
Ryegrass	20	PLS	(min)	Big Bluestem	14 <i>PLS</i>	(min)	Red Clover	5	PLS	(min)
Bromegrass	16	PLS	(min)	Indian Grass	14 PLS	(min)	Lespedeza	10	PLS	(min)
Orchardgrass	5	PLS	(min)							
Timothy	4	PLS	(min)							
PLS = Pure Live Se	ed		(min)	= Minimum application	on rate if use	ed		L		
REVEGETATION MIX #				PURPOSE OR LAND USE			B. SEEDING OR PLANTING	TIME		
		1	Industrial			March - June August - Octo			ctober	

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance:

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Pre 1990 Areas of Disturbance:

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed.

Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the

local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination.

Seeding methods may include one or all of the following: Broadcast, Drilling, Hydroseeding

Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation.

Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch

will be applied to all slopes exceeding 5:1.

Cool Seaso	n Grasses		Legumes				
Seeded Species	Pounds/Acre			Seeded Species	Pounds/Acre		
Tall Fescue	12	PLS	(min)	Alfalfa	20	PLS	(min)
Ryegrass	10	PLS	(min)	Red Clover	10	PLS	(min)
Bromegrass	8	PLS	(min)	Lespedeza	20	PLS	(min)
Orchardgrass	5	PLS	(min)	Crownvetch	20	PLS	(min)
Timothy	4	PLS	(min)				
PI S = Pure I ive Seed	(min) = Mir	imum ar	nnlicati	ion rate if used			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Agricultural Use:

All reclaimed areas will be graded so as to be traversable by standard farm equipment. All reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would support the intended use.

RECEIVED DEC 1 0 1998

MISSOURI LAND RECLAMATION COMMISSION

Wildlife Use:

All reclaimed areas will have a gradient suitable for wildlife.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Water Impoundment:

All reclaimed areas will meet guidelines/regulations in effect at time of reclamation and established by the appropriate regulatory agencies.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Industrial Use:

All reclaimed areas will be neat, orderly, and free of mining activity debris.

Where necessary, reclaimed areas will be sown with appropriate revegetation mix and may include volunteer indigenous species which would supprt the intended use.

Note: All final reclamation uses to meet guidelines/regulations in place at time of original disturbance.

Note: Final Reclamation Uses, size, location, and configuration can be influenced by a variety of factors including, but not limited to: depth of mineral extraction, variations in quality of mineral being mined, and/or market demands.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading to be completed after mineral extraction and within one year of permit expiration. Grading variances may be requested for any areas requiring additional time.

REPLACEMENT OF TOPSOIL

Topsoil and Subsoil replacement to be completed after grading and within one year of permit expiration

Topsoil variances may be requested for any areas requiring additional time.

REVEGETATION

Revegetation to be completed after grading and/or topsoil/subsoil replacement and within two years of permit expiration

Revegetation variances may be requested for any areas requiring additional time.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

Post 1990 Areas of Disturbance = All vegetation supporting material will be used for revegetation

D. USE OF LAND WHEN RECLAIMED				
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES			
Wildlife (forest or other habitat with livestock excluded)	34			
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	10	(approx.)		
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.	,			
Agricultural (pasture, cropland, and horticultural)				
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	30	(approx.)		
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.				
Development (residential, industrial, and recreational)				
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	2	(approx.)		
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.				
Water impoundments (for wildlife, agricultural, or development)				
Note: Final Use areas outlined on Mine Plan Map are approximate in size, location and configuration.	46	(approx.)		
Actual Final Use, total acreage, location and configuration to be determined at time of final reclamation.				

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE	Executive Vice Pr	esident	DATE
An mat					1/4/99
NOTARY PUBLIC EMBOSSER SEAL	STATE Yorth Car	oline		COUNTY (OR CITY	OF ST. LOUIS)
	SUBSCRIBED AND SWOF	RN BEFORE	ME, THIS		
	4 th	DAY OF	anuary 1999	USE RUBBER S	STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATU	RE J	MY COMMISSION		
	Morene for		EXPIRES 10/2/2001		
	NOTARY PUBLIC NAME (TY	YPED OR PRI	NTED)		
	Florence F	08			
APPROVED BY (DIRECTOR'S F	REPRESENTATIVE)		DATE APPROVED		PERMIT NUMBER
The Company	502/an	MAK	1-4-9	8	0067
MO 780-1327 (12-91)	./				PAGE 6 OF 6





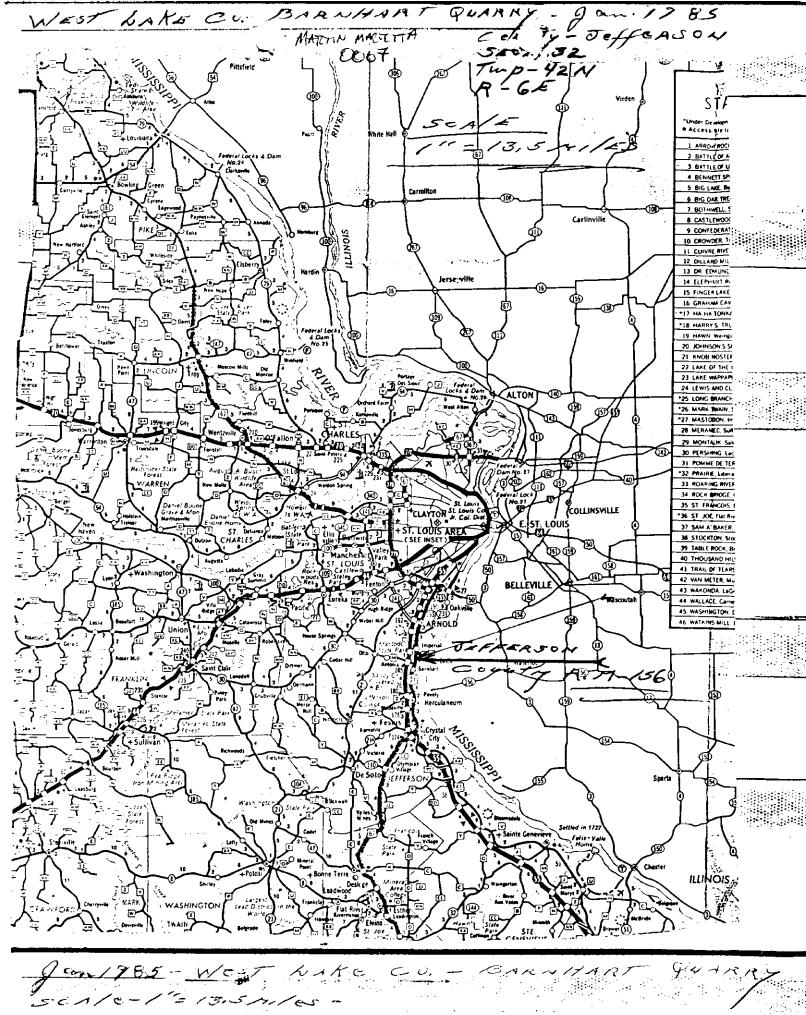
P.O. BOX 176 JEFFERSON CITY, MO 65102

MISSOURI LAND (FOR TRANSFERRING PERMITTED ACRES FROM BELLA MATICAL OF THE WITH NO CHANGES IN MINE PERMIT TRANSFER PLAN OR ACREAGE) NAME OF CUPRENT PERMIT HOLDER PERMIT NUMBER Barnhart Limestone, Inc. 0600 Jefferson County S-32, T 42N, Ro6E ADDRESS P. O. Box 459 STATE ZIP CODE Barnhart Mo. 63012 CONTACT PERSON PHONE NUMBER Louis Griesemer (314) 464-3364 TO BE COMPLETED BY THE CURRENT PERMIT HOLDER List all reclamation bonds which are held on this permit **BONDING COMPANY BOND NUMBER BOND DATE AMOUNT** Nations Bank 006-036-2289551 1-29-98 \$19,500 TO BE COMPLETED BY PROPOSED SUCCESSOR NAME OF PROPOSED SUCCESSOR Martin Marietta Materials, Inc. ADDRESS 2710 Wycliff Road ZIP CODE 27607 CITY STATE NC Raleigh CONTACT PERSON TELEPHONE NUMBER W. Thomas Sellers, Jr. (919) 781-4550 List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor. NAME OF COMPANY **PERMIT NUMBER MINERAL** Martin Marietta Materials, Inc. 0153 Limestone 0067 Martin Marietta Materials, Inc. Limestone

NOTE: The successor company must provide proof of bond replacement and an affidavit of publication for the required public

MO 780-1333 (12-91)

notice.



e-1=13.5/1/es-= 04 MTy - Tefferson -5ect. 32 Twp-42N R-6